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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,036	01/21/2004	Stephen J. Todd	E0295.70201US00	3938
23628 7590 07/09/2007 WOLF GREENFIELD & SACKS, P.C.		•	EXAMINER	
600 ATLANT	IC AVENUE		LEROUX, ETIENNE PIERRE	
BOSTON, MA 02210-2206			ART UNIT	PAPER NUMBER
	·		2161	
			MAIL DATE	DELIVERY MODE
			07/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/762,036	TODD ET AL.				
Office Action Summary	Examiner	Art Unit				
	Etienne P. LeRoux	2161				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w.  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  18(a). In no event, however, may a reply be tim  vill apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONEI	L. viely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status		·				
	Responsive to communication(s) filed on <u>07 May 2007</u> .					
· <u>—</u>	,					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>29,30,32-46,48-62 and 64-91</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>29,30,32-46,48-62 and 64-91</u> is/are rejected. 7)□ Claim(s) is/are objected to.						
8) Claim(s) are subjected to:						
	·					
Application Papers						
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on 21 January 2004 in/ore: sp □ seconted or b) shipsted to by the Examiner.						
10) The drawing(s) filed on $\underline{21\ January\ 2004}$ is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)	_					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)				

#### Claim Status

Claims 29, 30, 32-46, 48-62 and 64-91 are pending; claims 31, 47 and 63 having been cancelled. Claims 29, 30, 32-46, 48-62 and 64-91 are rejected as detailed below.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 29, 30, 32-46, 48-62 and 64-91 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pub No US 2005/0055518 (Hochberg et al), hereafter Hochberg in view of Pub No US 2004/0153844 (Ghose et al), hereafter Ghose.

# Claims 29, 45, 61, 66, 73, 74, 77, 80, 83, 86 and 89:

Hochberg discloses:

- (A) receiving a request from the host to delete a unit of data stored on the storage system
- (B) determining whether a previously-defined retention period for the unit of data has expired by performing the acts of:

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(B1) retrieving first information, associated with the unit of data, that identifies a manner of accessing second information specifying the previously defined retention period; [archive program 12, Fig 1]

(B2) using the first information to retrieve the second information specifying the previously-defined retention period [retention protection setting 16, Fig 1]

(C) when it is determined in the act (B) that the retention period for the unit of data has not expired, denying the request to delete the unit of data [paragraphs 10 and 21]

Hochberg discloses the elements of the claimed invention as noted above but does not disclose wherein the first information is information identifying a retention class to which the unit of data belongs, wherein the second information is a retention period associated with the retention class, and wherein the method further comprises an act of maintaining, on the at least one storage system, a record associating the retention period with the retention class. Ghose discloses a timeWindow class attribute [paragraph 53 and Fig 7]. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hochberg per the above for the purpose of providing a time period from beginning to end to measure threshold amounts [paragraph 53 and Fig 7].

# Claims 30, 46 and 62:

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses deleting the unit of data when determined that the retention period has expired [Hochberg, paragraph 21]

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Claims 32, 48 and 64:

The combination of Hochberg and Ghose discloses the elements of the claimed invention

as noted above and further discloses accessing the record on the storage system to retrieve the

previously-defined retention period [Hochberg, paragraph 23]

Claims 33, 49 and 65:

The combination of Hochberg and Ghose discloses the elements of the claimed invention

as noted above and further discloses receiving at the at least one storage system a second request

from the at least one host requesting that the at least one storage system modify the retention

period of the retention class [Hochberg, paragraph 23]

Claims 34, 50, 75, 81 and 87:

The combination of Hochberg and Ghose discloses the elements of the claimed invention

as noted above and further discloses reducing the retention period [Hochberg, paragraph 22]

Claims 35, 51, 76, 82 and 88:

The combination of Hochberg and Ghose discloses the elements of the claimed invention

as noted above and further discloses wherein the second request is to increase the retention

period of the retention class [Hochberg, paragraph 23]

<u>Claims 36 and 52:</u>

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The combination of Hochberg and Ghose discloses the elements of the claimed invention

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as noted above and further discloses modifying the second information specifying the retention

period in response to the second request [Hochberg, paragraph 23]

<u>Claims 37 and 53:</u>

The combination of Hochberg and Ghose discloses the elements of the claimed invention

as noted above and further discloses modifying the second information without modifying the

content of the unit of data [Hochberg, paragraphs 23 and 24]

Claims 38 and 54:

The combination of Hochberg and Ghose discloses the elements of the claimed invention

as noted above and further discloses wherein the request comprises an event command indicating

the occurrence of an event [Hochberg, paragraph 23].

Claims 39, 55, 67, 78, 84 and 90:

The combination of Hochberg and Ghose discloses the elements of the claimed invention

as noted above and further discloses wherein the event command does not specify the manner in

which the retention period of the retention class is to be reduced, and wherein the act further

comprises an act of determining the manner of reducing the retention period of the retention

class by referring to information stored within or accessible to the storage system [Hochberg,

paragraphs 23 and 24]

Claims 40, 56, 68, 79, 85 and 91:

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The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses wherein the second request specifies the manner in which the length of the retention period of the retention class is to be reduced [Hochberg, paragraph 22]

# Claims 41, 57 and 69:

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses determining whether the retention period class is permitted to be reduced and reducing the retention period only when the retention period for the retention class is permitted to be reduced [Hochberg, paragraph 24]

#### Claims 42, 58 and 70:

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses an act of determining whether the retention period of the retention class as capable of being reduced [Hochberg, paragraph 24]

# Claims 43, 59 and 71:

The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses whether the retention period of the retention class is designated as capable of being reduced by examining the retention period [Hochberg, paragraphs 23 and 24]

# Claims 44, 60 and 72:

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The combination of Hochberg and Ghose discloses the elements of the claimed invention as noted above and further discloses whether the retention period of the retention class is designated as capable of being reduced by examining a flag associated with the retention class [Hochberg, paragraph 31]

# Response to Arguments

Applicant's arguments filed 5/7/2007 have been fully considered but are moot based on above new grounds of rejection necessitated by applicant's claim amendments.

# Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Etienne P. LeRoux whose telephone number is (571) 272-4022. The examiner can normally be reached on Monday through Friday, 8:00 am 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Apu Mofiz can be reached on (571) 272-4080. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Etienne LeRoux

6/28/2007

PRIMARY EXAMINER

Etienne Plebruse